The Challenge

Ergonomics

Physical discomfort such as backache and leg pains have a major impact on a person’s quality of life and a company’s performance. These ailments can lead to a decline in productivity, work of lower quality and extended sick leave.

Even when you are performing simple and monotonous activities without any major physical effort, working only in a seated or standing position can be difficult and tiring.

The aim of ergonomics is to adapt the working environment to meet people’s needs. In everyday working life, this means adapting the height at which people work to their different body heights and activities as well as optimising working conditions, work processes and equipment.

Such measures help to prevent employees suffering from premature fatigue and long-term damage and also aim to achieve an improvement in working performance.

Variety

Sometimes all you need to do is change position, stretch your legs, sit down or stand up. With our system, you can adopt either a seated or a standing posture without interrupting your work. Thanks to the system’s programmable positions, the push of a button is all it takes to bring your work station into your desired position of comfort.

The range of applications for Ergoswiss lifting and positioning systems is virtually limitless. Tables (office and CAD desks, assembly and packaging tables and laboratory benches, workbenches and joiner’s benches) and working surfaces (sales counters, pay stations, check-in desks) can be moved up or down or tilted and so adjusted to the individual needs of different employees.

A perfectly adjusted work station reduces employee fatigue, which leads to a decrease in injuries and accidents. It can also result in fewer health problems, especially back trouble.

Ergonomic work stations promote employee motivation, thereby increasing productivity. Taking these factors into consideration, you can see how the Ergoswiss system can pay for itself in just a few months.
The Solution

Our flexible and easy-to-assemble systems are used all over the world in the manufacture of assembly and laboratory work stations and for furniture and office fittings.

In the field of mechanical engineering, our products are a cost-efficient and simple alternative to conventional drive systems.

We offer you:
- expert advice
- online configuration and support with requests
- rapid response to requests for quotations
- short lead times
- faultless after-sales service
- world-wide presence and delivery

We would be happy to help meet your individual needs. Visit our website or simply give us a call.

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Modular and flexible

The power unit [1] drives hydraulic oil out of the pump [2] and into up to ten cylinders* [3], which causes the piston rods to be extended. The principle of single-acting hydraulics requires a restoring force of at least 70 N (15 lbs)** per cylinder to press the hydraulic oil back into the pump.

The Ergoswiss system is assembled using flexible hoses [4]. It functions independently of load and operates completely synchronously. Thanks to its small dimensions, high load capacity and quiet operation, our system has distinct advantages over conventional lifting systems.

* Linear units or table legs can be used instead of the cylinders.

** Restoring forces of up to 250 N (55 lbs) are required for long hoses, or if there is friction in the guide rail or a misalignment in assembly.

System Structure
Simple and ingenious

Through the rotary motion of the power unit [1], the piston rods [2] are pushed by the pusher block [3] into the pressure elements [4]. This then presses the hydraulic oil [5] out of the pressure elements and into the connected cylinders.

Each connected cylinder has its own pressure element in the pump.

The hydraulic oil pressed out of the pressure element [1] flows through the hydraulic hose into the cylinder [2] and presses against the piston rod [3]. The simultaneous displacement of the hydraulic oil into all pressure elements of the pump causes the cylinders to extend synchronously.

The stand pipe [4], which is firmly screwed to the piston rod of the cylinder, is then pressed out of the housing [5] and when the cylinder extends, it slides into the plastic bushing inside the aluminium housing [6].

The entire design is firmly anchored in the housing and thus guarantees high lateral stability.
Productivity and health

A conscientious entrepreneur ensures long-term growth and competitiveness through innovation and productivity. All modern industrial concerns are therefore obliged to design their work stations so that employees can carry out their work in a healthy environment to guarantee the highest possible level of productivity. The height adjustment of workbenches or factory equipment therefore plays a key role in achieving a sustained level of high productivity and in maintaining the health of employees.

Ergoswiss systems deliver simple and cost-effective solutions for all work stations requiring height adjustment. From the 2-leg laboratory bench to the 4-leg workbench or the 10-leg conveyor facility, our flexible lifting systems can either be easily retrofitted or fully integrated into your own system.
We recommend:

1. For workbenches with high load capacity and stability: systems TA and TU
2. For pipe systems and storage racks: linear units LA and LH
3. For light assembly tables and for use with aluminium profiles: systems TT and TQ
4. For packing tables: linear units LA and LH and systems TA, TQ, TT and TU

Height adjustment applications:
- Workbenches
- Assembly benches
- Measuring tables
- Aluminium profile systems
- Steel pipe systems
- Packing tables
- Laboratory benches
- Watchmaker benches
- Joiner’s benches
- Control desks
- Sewing tables
- Flow boxes
- Electrical assembly benches
- Sand blasting units
- Sanding and polishing tables
- Tool and gear trucks
- Conveyer systems
- etc.
Comfort and convenience

People are living longer and therefore need a comfortable environment to live in yet one that can also be adapted to any special health care needs. Adjusting the height of baths, wash basins, beds, kitchen wall units or worktops can lead to a considerable improvement in convenience for the elderly or disabled.

Height adjustment in care facilities not only benefits the nursing staff, it also makes life easier for the patients. With our Ergoswiss systems, you can adjust the height of massage couches, examination tables, laboratory furniture or equipment easily and aesthetically to meet the needs of nursing staff and patients, thus guaranteeing a high level of comfort.
We recommend:

1 For discussion and meeting tables: systems LH, FB or FC

2 For examination tables and massage couches: linear units LA and LH as well as systems TA and TT

3 For laboratory benches and equipment: linear units LA and LH as well as systems TH, FB or FC

4 For sink units and preparation tables: the stainless steel linear unit LA

5 For work stations with protective hoods and extractor fans: linear units LA and LH as well as systems TA and TT

6 For baths: systems TT or TA

Height adjustment applications:

- Beds for the sick and elderly
- Baby changing tables
- Chemistry work stations
- Safety work stations
- Baths for the sick and elderly
- Furniture for the disabled
- Fitness equipment
- Examination tables
- Massage/beauty couches
- Infant beds/cots
- Incubators
- Examination chairs
- Pedicure chairs and platforms
- Manicure tables
- Veterinary examination tables
- etc.
Fit for purpose and state of the art

A professional chef spends around 2,000 hours a year in the kitchen. Chefs and their kitchen crews would definitely appreciate the health benefits of being able to adjust the various work stations to the relevant heights of the team members. You can easily retrofit the stainless steel Ergoswiss height adjustment systems into existing furniture or add them to all kitchen units in any modern kitchen.

Adjustable work surface heights enable chefs to carry out their creative work in an ideal working position. This reduces fatigue, which undoubtedly boosts creativity, quality and productivity many times over.
Height adjustment applications:
- Professional stoves
- Preparation tables
- Butchering tables
- Canteen and bistro tables
- Pay stations
- Sales and serving counters
- Glass covers for salad bars
- Steam extractors
- Food warmers
- etc.

We recommend:

1 For installation in steel tube frames of preparation tables or stoves: our stainless steel linear units LA, LD or LH

2 To lower steam extractors: linear unit LA

3 For mobile kitchen elements and sales counters: linear units LA and LH or systems TA, TU and TT

4 For kitchen and canteen tables: linear units LA and LH as well as system TH
Diversity and operating efficiency

The competitiveness of most industry sectors is mainly dependent on product costs and product quality. It is therefore important to use expensive production lines in a variety of ways while at the same time boosting the productivity of workers. The Ergoswiss systems not only adjust work surfaces to the ideal working height for each employee, they can also regulate the working height of entire production lines, machines, conveyor belts or platforms in a matter of seconds.

Having adjustable work surfaces and equipment on the basis of Ergoswiss products means you can use industrial equipment more efficiently. The ergonomic work stations also reduce worker fatigue and so boost productivity.

Existing work stations, machines, production lines or platforms can be retrofitted quite simply and cost effectively with the Ergoswiss height adjustment systems.
We recommend:

1 For workbenches and deburring tables: the systems TA, TQ, TT and TU

2 For working platforms: the linear unit LA

3 To adjust the tilt of conveyor belts: the linear unit LA or the systems TA and TU

4 To adjust the height of conveyors: the systems TA, TQ and TT

5 For packing tables: the systems TA, TQ, TT and TU

Height adjustment applications:

- Machine covers
- Conveyer systems
- Runways
- Working platforms
- Welding benches
- Sand blasting units
- Cleaning tables
- Tool-setting tables
- Measuring tables
- etc.
Adjustable work, seating or living spaces incorporating our Ergoswiss products can considerably improve comfort and convenience in the home while retaining the chosen style of the basic furnishing elements.

Style and comfort

Selecting furniture for the home is based on emotional criteria and often, too much of the focus is placed on aesthetic aspects. When function and comfort are a consideration, however, our Ergoswiss system can make a distinct contribution to your well-being in the home. Our systems are invisible and easy to install and do not alter the look of the furniture. The slimline structural form and flexible drive systems of the height adjustment elements allow for considerable freedom in design.
We recommend:

1. For preparation, rinsing and storage surfaces: the systems TA, TQ, TT and TU

2. To lower steam extractors: the linear unit LA

3. For kitchen islands and stand-up bars: the linear unit LA and systems TA, TQ and TU

4. To install televisions: the screen lifts or the linear unit LA

5. For dining tables: the linear units LA and LH and system TH

6. For display cabinets: the linear unit LA

7. For beds and couches: the linear unit LA

Height adjustment applications:

- Extractor hoods
- Glass covers for display cabinets
- Dining tables
- Kitchen islands
- Mirrored cabinets and wall units
- Chests of drawers
- Beds and sofas
- Tables for the disabled
- Office desks
- Massage couches
- Tables for arts and crafts/hobbies
- Built-in equipment
- Coffee tables
- etc.
Functionality and design

Ergoswiss systems are often used to facilitate day-to-day office work. Our system has a very elegant look that enables individual and modern interior design.

With the height of the work surface adjustable, work can be carried out in an ideal position. This reduces worker fatigue, which not only increases productivity but also helps to maintain the overall health of the workforce.

The slimline design of the table legs and their flexible drive system offers considerable freedom in terms of work place design.

The system is ideal for 2-leg tables, corner combinations and large conference tables with several table legs.
We recommend:

1. For conference tables: the linear units LA and LH or the system TH, all of which ensure ample legroom.

2. For simple office desks: the systems TA, FB or FC.

3. For the adjustment of screens and monitors: the screen lifts ST.

4. For tables with a large surface area, corner combinations or free-form surfaces: the system TA or the linear unit LA.

Height adjustment applications:

- Student’s desks
- Lecterns
- Conference tables
- PC and CAD stations
- Projector tables
- Chairs
- Monitors, whiteboards and interactive screens
- Trading desks
- etc.
Powerful and quiet

The pumps **PA** and **PB** represent the heart of our adjustment system.

The flexible connections, the minimal space requirements and the option of mounting the pumps in any location (even outside a system) mean that Ergoswiss systems can be integrated in very slim and complex objects.

Our pumps can activate up to 10 cylinders quietly, continuously and absolutely synchronously – even in the case of uneven loads – lifting weights up to 800 kg (1750 lbs).

The pumps are driven by an electric drive unit or by a hand crank.

A restoring force of at least 70 N (15 lbs)* should be available per cylinder to push the oil back into the pump during retraction (single-acting hydraulics).

The pumps and cylinders are connected with a hydraulic hose (Ø 4 mm / 3/32”). The maximum hose length is 8 m (260 ft), the minimum bending radius is 25 mm (1”).

The pump housing is an extruded aluminium profile with a plain anodised finish.

Three fixing holes are available to mount the pumps.

* Restoring forces of up to 250 N (55 lbs) are required for long hoses, or if there is friction in the guide rail or a misalignment in assembly.
**Technical data**

- **Type PA** to drive 1 or 2 cylinders and for a maximum system load of 5,000 N (1,100 lbs)
- **Type PB** to drive from 3 to 10 cylinders and for a maximum system load of 8,000 N (1,750 lbs)
- Maximum lift speed of 10 mm (3/8”) per crank turn, or max. 30 mm/s with electric drive
- Food-grade hydraulic oil can be used
- Other models on request

<table>
<thead>
<tr>
<th>Pump</th>
<th>PA</th>
<th>PB</th>
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<tbody>
<tr>
<td><strong>120 kg</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>x620 – x630</td>
<td>298.5 mm</td>
<td></td>
</tr>
<tr>
<td>x640 – x660</td>
<td>480.5 mm</td>
<td></td>
</tr>
<tr>
<td>x670</td>
<td>600.5 mm</td>
<td></td>
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<tr>
<td><strong>350 + 600 kg</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>x815</td>
<td>298.5 mm</td>
<td></td>
</tr>
<tr>
<td>x820</td>
<td>358.5 mm</td>
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<td>x830</td>
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<td>x840</td>
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<tr>
<td>x850</td>
<td>722.5 mm</td>
<td></td>
</tr>
<tr>
<td>x860</td>
<td>842.5 mm</td>
<td></td>
</tr>
<tr>
<td>x866</td>
<td>923.5 mm</td>
<td></td>
</tr>
<tr>
<td>x870</td>
<td>969.5 mm</td>
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<td><strong>800 kg</strong></td>
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</tr>
<tr>
<td>x418</td>
<td>480.5 mm</td>
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<td>x430</td>
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</tr>
<tr>
<td>x440</td>
<td>923.5 mm</td>
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</tbody>
</table>

Detailed CAD drawings in various formats can be found at [www.ergoswiss.com](http://www.ergoswiss.com)
Simple and convenient

Our pumps can be operated with a hand crank or an electric drive unit. Your choice will depend on the desired level of convenience and on price considerations.

When folded in, the hand crank entirely disappears from view under the table.

The following options are available:
- detachable hand crank
- stainless steel hand crank
- torque limited clutch

The electric drive unit has an intelligent control system with space for 4 memory positions.

Height adjustment is achieved via cable remote control. This is mounted on the underside of the table and can be neatly pushed under the table top. The table height is displayed digitally on the remote control.

The power supply unit (230 VAC, or 110 VAC) is integrated in the control unit. An electric current monitoring function protects the electric drive unit from overload and also serves to protect the system on start-up.

Delivery includes the motor, control unit with 3-pole power cable and cable remote control (2 m cable length) with position memory.

The drive units are not suitable for continuous operation. After one minute of operation, the drive unit needs to rest for about 20 minutes (duty cycle 5%). The nominal travel decreases by about 15 mm with an electric drive unit.

The following accessories are available:
- various options for cable remote control (simple on/off switch, foot switch, infra-red remote control)
- control cable to use your own switches
- safety strips
- extension and split cables
- cable to synchronise max. 4 power units
- country-specific power cables (3-pole)
- 12 V battery solution

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Type PD

Technical data
- 4 memory positions
- Digital height display
- Mains voltage 230/110 VAC
- Motor voltage 24 VDC
- Power rating approx. 340 VA
- Standby output < 0.6 W
- Idle running speed 180 rpm
- Protection class IP 30
- Overload protection
- Thermal protection
- Duty cycle monitoring

Detailed CAD drawings in various formats can be found at www.ergoswiss.com
The clamping rings and screws (M8x1) are for connecting the hose to the pump and cylinders.

The flexible hydraulic hose has the following properties:
- exterior diameter: 4 mm (\(\frac{5}{32}\)“)
- minimum bending radius: 25 mm (1“)
- maximum operating pressure: 100 bar (1450 psi)

The following accessories are available:
- T, Y, L or straight-through fittings
- hose couplings
- hose blanking plugs
- brackets D6 and D8 to mount the cylinders
- hose break protection

Strong and slim

Our cylinders are ideal for quiet, quick and precise adjustments. Highly complex designs can be realised thanks to the simultaneous activation of up to ten cylinders.

The cylinders are designed to be integrated into existing guide rails and should only be exposed to minor lateral forces. They are used for height and tilt adjustments.

The cylinder is the basic element of all linear units and table legs and is therefore used in all our elements. It is made of brass and has a piston rod made of stainless steel.
Detailed CAD drawings in various formats can be found at www.ergoswiss.com

### Technical data

- Please note the maximum load of the entire system as shown in the table.
- Maximum load 1,500 N (330 lbs) per cylinder with piston diameter 14 mm.
- Maximum load 2,500 N (550 lbs) per cylinder with piston diameter 18 mm.
- Lifting distances up to 700 mm; longer lifting distances on request.
- The cylinders should not be exposed to tensile forces.
- The cylinders must be installed within an existing guide rail.
- Food-grade hydraulic oil can also be used.
- Other models on request.

#### Cylinder CX

<table>
<thead>
<tr>
<th>Type</th>
<th>A by Ø 16</th>
<th>A by Ø 20</th>
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<tbody>
<tr>
<td>CB</td>
<td>55 mm</td>
<td>62 mm</td>
</tr>
<tr>
<td>CD</td>
<td>61.5 mm</td>
<td>67.5 mm</td>
</tr>
<tr>
<td>CE</td>
<td>56.5 mm</td>
<td>62.5</td>
</tr>
<tr>
<td>CG</td>
<td>44 mm</td>
<td>49 mm</td>
</tr>
<tr>
<td>CH</td>
<td>50 mm</td>
<td>57 mm</td>
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<tr>
<td>CI</td>
<td>49 mm</td>
<td>54 mm</td>
</tr>
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The **Linear units**

Universal and compact

The linear unit consists of a cylinder and a linear guide rail and is a compact and robust lifting element. It can be installed directly onto or into existing objects. This means that a wide range of tables or other devices can easily be equipped or retrofitted with a lifting system.

Four M5 screw threads are provided to mount the linear units LA and LD.

The housing of the linear unit is a plain anodised aluminium profile. The stand pipe is made of stainless steel and positioned in a plastic bushing.

The linear unit consists of a cylinder and a linear guide rail and is a compact and robust lifting element. It can be installed directly onto or into existing objects. This means that a wide range of tables or other devices can easily be equipped or retrofitted with a lifting system.

Four M5 screw threads are provided to mount the linear units LA and LD.

The housing of the linear unit is a plain anodised aluminium profile. The stand pipe is made of stainless steel and positioned in a plastic bushing.

The linear unit is available in different versions:
- LA-R: radial tube outlet
- LA-F: with built-in restoring spring
- LA-RF: stainless steel version
- LA-ESD: ESD-compatible protective cover
- LA-V: with built-in hose rupture protection
- LB, LD-E for installation in existing profile systems
- Quick-ship systems

The height is adjusted by means of a hydraulic pump operated by a hand crank or electric drive unit.

The following accessories are available:
- mounting plates allowing other assembly options for the linear units
- adjustable feet made of rubber or aluminium to compensate for uneven flooring
- locking castors (load 70 kg)
Dimensions LA LD

Technical data

- Versatile linear guide rail with slide bearings
- Max. lifting load for each element:
  1,500 N [LA/LD 14]
  2,500 N [LA/LD 18]
- Please also note the maximum load of the entire system
- Synchronous control of up to 10 table legs
- Lifting distance max. 700 mm
- Max. static bending moment \( M_b = 150 \text{ Nm} \)
- Max. dynamic bending moment \( M_{bdyn} = 50 \text{ Nm} \)
- Food-grade fluids can also be used
- No additional guide rail is required
- The linear units should not be exposed to tensile forces
- Plain anodised aluminium

<table>
<thead>
<tr>
<th>Typ</th>
<th>LA</th>
<th>LD</th>
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<tbody>
<tr>
<td>LAILD 1415</td>
<td>150</td>
<td>252 mm</td>
</tr>
<tr>
<td>LAILD 1420</td>
<td>200</td>
<td>317 mm</td>
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<tr>
<td>LAILD 1430</td>
<td>300</td>
<td>442 mm</td>
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<tr>
<td>LAILD 1440</td>
<td>400</td>
<td>542 mm</td>
</tr>
<tr>
<td>LAILD 1450</td>
<td>500</td>
<td>667 mm</td>
</tr>
<tr>
<td>LAILD 1460</td>
<td>600</td>
<td>767 mm</td>
</tr>
<tr>
<td>LAILD 1470</td>
<td>700</td>
<td>867 mm</td>
</tr>
</tbody>
</table>

Detailed CAD drawings in various formats can be found at www.ergoswiss.com
The linear units LH

Slim and robust

The linear unit LH provides the stability and smooth running of the table leg TA. Thanks to its slimline design, it is also suitable for installation in a square tube. It is mainly used in place of the linear unit LA when large lifting distances are required.

Four M5 screw threads are provided to mount the linear unit.

The linear units LA or LH are installed in square tubes (40 x 40 mm) in the frame TH. There is a wide range of different applications, including office desks, kitchen tables and work stations. Ample legroom is provided as the crossbar is mounted directly under the table top. It is therefore also suitable for use in the health care sector or for wheelchair users.

The height is adjusted by means of a hydraulic pump operated by a hand crank or an electric drive unit.

The following accessories are available:
- crossbars of various lengths
- adjustable feet made of rubber or aluminium
- locking castors (load 70 kg)

The linear unit LH consists of two steel tubes. The galvanised guide tube is supported on bearings. The lifting movement is effected by hydraulic cylinders.
Dimensions LH

Technical data
- Versatile linear guide rail with ball bearing guide
- Max. lifting load for each element
  1,500 N (LH 14)
  2,500 N (LH 18)
- Please also note the maximum load of the entire system
- Synchronous control of up to 10 table legs
- Lifting distance
  400 or 500 mm
- Max. static bending moment \( M_b = 200 \text{ Nm} \)
- Max. dynamic bending moment \( M_{bdyn} = 70 \text{ Nm} \)
- The lifting element is supplied with a 4 m hydraulic hose pre-fitted as standard
- Food-grade fluids can also be used
- No additional guide rail is required
- Colour: RAL 9006 white aluminium

<table>
<thead>
<tr>
<th>Type LH</th>
<th>Lift</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH 1440</td>
<td>400</td>
<td>538 mm</td>
</tr>
<tr>
<td>LH 1450</td>
<td>500</td>
<td>638 mm</td>
</tr>
</tbody>
</table>

Detailed CAD drawings in various formats can be found at [www.ergoswiss.com](http://www.ergoswiss.com)
Robust and versatile

The system TA is ideal for assembly work stations, workbenches, office desks, built-in kitchens or in combination with aluminium profile systems with high load and stability requirements.

Crossbars or mounting brackets are fitted on the welded-on mounting plate. The table top supports, crossbars and mounting brackets are supplied with all the necessary screws.

The system is available in single parts or as a complete base frame.

The height is adjusted by means of a hydraulic pump operated by a hand crank or an electric drive unit.

The 3-metre-long hydraulic hose is already mounted on the table leg and vented which ensures easy assembly.

The following accessories are available:
- bracket to attach table tops
- crossbars of various lengths
- mounting brackets
- adjustable table feet made of rubber or aluminium
- locking castors
- table legs with mounting plates on each side

The table leg TA consists of two steel tubes. The galvanised guide tube is supported on bearings. The lifting movement is effected by hydraulic cylinders.
Technical data

- Robust leg with ball bearing guide
- Max. lifting load for each element:
  1,500 N [TA 14]
  2,500 N [TA 18]
- Please also note the maximum load of the entire system
- Synchronous control of up to 10 table legs
- Lifting distance max. 500 mm
- Max. static bending moment \( M_b = 400 \) N
- Max. dynamic bending moment \( M_{bdyn} = 100 \) Nm
- The table leg is supplied with a 3-m hydraulic hose pre-fitted as standard
- Colour: RAL 9006 white aluminium

<table>
<thead>
<tr>
<th>Leg TA</th>
<th>A</th>
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<td>TA 1430</td>
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<td>TA 1440</td>
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<td>TA 1450</td>
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<table>
<thead>
<tr>
<th>Crossbar TA/TU</th>
<th>B</th>
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<tr>
<td>TA/TU 550</td>
<td>550 mm</td>
</tr>
<tr>
<td>TA/TU 750</td>
<td>750 mm</td>
</tr>
<tr>
<td>TA/TU 950</td>
<td>950 mm</td>
</tr>
<tr>
<td>TA/TU 1150</td>
<td>1150 mm</td>
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<tr>
<td>TA/TU 1550</td>
<td>1550 mm</td>
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</tbody>
</table>

Detailed CAD drawings in various formats can be found at [www.ergoswiss.com](http://www.ergoswiss.com)
The TA is a modular system and is therefore very versatile and flexible in its application.

The maximum load is 3,500 N, 6,000 N or 8,000 N depending on the pump version. Thanks to the large lifting distance of maximum 500 mm, the tables can also be used in a standing position.

**TA-2:** The two-leg system for sitting and standing work stations in the office or at the assembly station. Consisting of two table legs, two table top carriers, two table feet as well as a crossbar to stabilise the system. Various table widths can be realised using the crossbars from the standard programme.

**TA-3:** The three-leg system for corner combinations in the office and in assembly areas. Here, the two-leg system is extended with an additional crossbar and a third leg.

**TA-4:** The four-leg system for maximum stability as required for workbenches, joiner’s benches and assembly work stations. The longitudinal crossbars can be placed at three different depth positions.

Screws to fasten the table top are included. The base frame is delivered unassembled.

Please note that a pump with hand crank or electric drive unit is also required.

Assembly and operating instructions are supplied with your order. These are also available at [www.ergoswiss.com](http://www.ergoswiss.com).
Dimensions TA

Frame TA-2

<table>
<thead>
<tr>
<th>Frame TA-2</th>
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<td>TA-2 1000</td>
<td>1000 mm</td>
</tr>
<tr>
<td>TA-2 1200</td>
<td>1200 mm</td>
</tr>
<tr>
<td>TA-2 1600</td>
<td>1600 mm</td>
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</table>

Frame TA-4

<table>
<thead>
<tr>
<th>Frame TA-4</th>
<th>B</th>
</tr>
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<tbody>
<tr>
<td>TA-4 1030</td>
<td>1030 mm</td>
</tr>
<tr>
<td>TA-4 1230</td>
<td>1230 mm</td>
</tr>
<tr>
<td>TA-4 1630</td>
<td>1630 mm</td>
</tr>
</tbody>
</table>

Detailed CAD drawings in various formats can be found at www.ergoswiss.com
Elegant and flexible

The TQ System is perfect for assembly workstations made of aluminium profiles and when fitted underneath in multi-line conveyor systems.

The T-Slots (8 mm wide) allow cross bars, interim shelves and fittings and attachments to be fitted across the whole length of the table leg.

The system is available in single parts or as a complete sub-frame.

It is adjusted using a hydraulic pump with a hand crank or an electric drive.

The 4 m high-pressure hose is already fitted to the leg and bled to guarantee simple fitting.

The following accessories are available:
- Crossbars in different lengths
- Adjuster feet in rubber or aluminium
- Lockable castors (bearing load: 70 kg)

The TQ leg consists of a colourless anodised extruded aluminium profile. The stainless-steel tube is mounted on slide guides. The lifting movement is provided by hydraulic cylinders.

The crossbars are supplied with pre-fitted universal connectors. These can be inserted into the table legs T-slots and fixed by means of a tapered thread.
Technical specifications

- Leg for universal use with sliding guide
- max. lift load for each leg: 1500 N (TQ 1440) 2500 N (TQ 1840)
- Please observe the maximum load for the complete system
- Synchronous control of up to 10 legs
- Stroke length: maximum 400 mm
- TQ 1830 V leg with integrated hose-break protection
- Maximum static bending moment Mb: 200 Nm
- Maximum dynamic bending moment Mbdyn: 80 Nm
- Colour: colourless anodised aluminium

<table>
<thead>
<tr>
<th>Crossbar</th>
<th>TQ 550</th>
<th>550 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>TQ 750</td>
<td>750 mm</td>
<td></td>
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<tr>
<td>TQ 950</td>
<td>950 mm</td>
<td></td>
</tr>
<tr>
<td>TQ 1150</td>
<td>1150 mm</td>
<td></td>
</tr>
<tr>
<td>TQ 1550</td>
<td>1550 mm</td>
<td></td>
</tr>
</tbody>
</table>
The **TQ** System allows sub-frames to be assembled quickly and flexibly.

The maximum lifting load is 3500 N or 6000 N depending on the pump version.

The maximum adjustment range is 400 mm.

The **TQ-4** sub-frame consists of 4 legs and 7 crossbars. The crossbars can easily be slotted into the T-slots on the table legs and tightened using an Allen key. Various brackets and screws are supplied for fixing the table tops. The sub-frame is delivered unassembled.

Please note that you will also require a pump with a hand crank or an electric drive.

All units are supplied with assembly and operating instructions. These are also available at [www.ergoswiss.com](http://www.ergoswiss.com).
Dimensions TQ

Frame TQ-4

| TQ-4 595 | 595 mm |
| TQ-4 995 | 995 mm |
| TQ-4 1195 | 1195 mm |
| TQ-4 1595 | 1595 mm |

Detailed drawings can be found at www.ergoswiss.com
Elegant and versatile

The TT system is used for assembly tables, assembly lines, office desks, adjustable beds, bathtubs and furniture in general, as well as mechanical engineering.

The mounting slots on three sides of the guide (wide: 8 mm) allow cross struts, interim shelves, fittings and attachments to be fitted across the whole length of the table leg. In combination with the PB pump, corner combinations and linked workplaces can be realised.

The TT leg consists of two colorless anodised aluminium extrusion sheaths running on plastic slides. The lifting movement is provided by hydraulic cylinders.

The system is available in single parts or as a complete sub-frame. It is adjusted using a hydraulic pump with a hand crank or an electric drive. The 3 m high-pressure hose is already fitted to the leg and bled to guarantee simple fitting.

The following accessories are available:
- Crossbars in different lengths
- Table legs with adjusting screws
- Floor plates

The struts are supplied with pre-fitted universal connectors. These can be inserted into the table legs T-slots and fixed by means of a tapered thread.
Dimensions

- Leg with slideway for universal use
- Max. lifting load for each leg: 1500 N (TT 1440, TT 1430) 2500 N (TT 1840, TT 1830)
- Please observe also maximum lifting load for the complete system.
- Synchronous control of up to 10 legs
- Stroke length: maximum 400 mm
- Max static bending moment Mb = 1500 N
- Maximum dynamic bending moment Mbdyn = 150 Nm
- Colorless anodised aluminium

### Technical Specs

#### Leg

<table>
<thead>
<tr>
<th>TT 1430</th>
<th>530 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>TT 1440</td>
<td>530 mm</td>
</tr>
<tr>
<td>TT 1830</td>
<td>532 mm</td>
</tr>
<tr>
<td>TT 1840</td>
<td>532 mm</td>
</tr>
</tbody>
</table>

#### Crossbar

| TT 550 | 550 mm |
| TT 950 | 950 mm |
| TT 1150 | 1150 mm |
| TT 1550 | 1550 mm |
The TT System allows sub-frames to be assembled quickly and flexibly. The maximum lifting load is 3000 N or 5000 N depending on the pump design. The maximum adjustment range is 400 mm.

The TT-2 sub-frame consists of two legs, one crossbar and two feet. The crossbar can easily be slotted into the T-slots on the table legs and tightened using an Allen key. Various screws are supplied for fixing the table tops. The sub-frame is delivered unassembled.

Please note that you will also require a pump with hand crank or an electric drive.

All units are supplied with assembly and operating instructions. These are also available at www.ergoswiss.com.
Dimensions TT

Subframe TT-2

<table>
<thead>
<tr>
<th>TT-2</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>590</td>
<td>590 mm</td>
</tr>
<tr>
<td>990</td>
<td>990 mm</td>
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<tr>
<td>1190</td>
<td>1190 mm</td>
</tr>
<tr>
<td>1590</td>
<td>1590 mm</td>
</tr>
</tbody>
</table>

Detailed CAD drawings in various formats can be found at [www.ergoswiss.com](http://www.ergoswiss.com)
Elegant and stable

The TU system is ideal for assembly work stations with demands of high load and stability.

The crossbars are fixed to the welded mounting plate.

The crossbars are supplied with all necessary mounting screws.

The TU leg consists of two steel pipes. The galvanised guide tube is mounted on ball bearings. The lifting movement is provided by hydraulic cylinders.

The system is available in single parts or as a complete sub-frame.

It is adjusted using a hydraulic pump with a hand crank or an electric drive.

The 3 m high-pressure hose is already fitted to the leg and bled to guarantee simple fitting.

The following accessories are available:
- Crossbars in different lengths
- Adjuster feet in rubber or aluminium
- Lockable casters (bearing load: 70 kg)
Dimensions TU

Technical specifications
- robust leg with ball bearing guide
- max. lifting load for each leg: 1500 N (TU 1450)
  2500 N (TU 1840)
- Please observe also maximum lifting load for the complete system.
- Synchronous control of up to 10 legs
- Stroke length: maximum 500 mm
- Max static bending moment Mb = 1500 N
- Maximum dynamic bending moment Mbdyn = 150 Nm
- Included with the leg are 3m of premounted high pressure hose and an adjuster foot in rubber
- Powder coated, Color Silver (RAL 9006)

| Leg | TU 1450 | 710 mm |
|     | TU 1840 | 717 mm |

<table>
<thead>
<tr>
<th>Crossbar</th>
<th>TA/TU</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>TA/TU 550</td>
<td>550 mm</td>
</tr>
<tr>
<td>TA/TU 750</td>
<td>750 mm</td>
</tr>
<tr>
<td>TA/TU 950</td>
<td>950 mm</td>
</tr>
<tr>
<td>TA/TU 1150</td>
<td>1150 mm</td>
</tr>
<tr>
<td>TA/TU 1550</td>
<td>1550 mm</td>
</tr>
</tbody>
</table>
The **TU** System is very solid and flexible assembly, thanks to its steel ball bearing system and modular design.

The maximum lifting load is 3500 N, 6000 N or 8000 N depending on the pump version. The maximum adjustment range is 500 mm.

The **TU-4** sub-frame consists of 4 legs and 3 crossbars. These are bolted to the plate that is welded onto the leg. Various screws are supplied for fixing the table tops. The sub-frame is delivered unassembled.

Please note that you will also require a pump with a hand crank or an electric drive.

All units are supplied with assembly and operating instructions. These are also available at [www.ergoswiss.com](http://www.ergoswiss.com).
Dimensions

Frame TU-4

<table>
<thead>
<tr>
<th>Frame</th>
<th>Length</th>
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</thead>
<tbody>
<tr>
<td>TU-4 1000</td>
<td>1000 mm</td>
</tr>
<tr>
<td>TU-4 1200</td>
<td>1200 mm</td>
</tr>
<tr>
<td>TU-4 1600</td>
<td>1600 mm</td>
</tr>
</tbody>
</table>

Detailed drawings can be found at [www.ergoswiss.com](http://www.ergoswiss.com)
System Selection Guide

These tables will help you to put together your own system on the basis of the required lifting power, the number of cylinders to be activated and the desired lifting distance.

1. System load
   What is the maximum load you wish to move? [120 / 350 / 600 / 800 kg] / [250 / 750 / 1300 / 1750 lbs]

   **Please note that**
   - you must not exceed the maximum load per cylinder
   - the weight of the table top and any superstructure must be deducted from the system load
   - the given loads refer to static loads
   - pressure surges can occur if weights are loaded onto the system.
   In such cases, you should plan in a sufficient reserve. Please contact our technicians, who will be able to advise you if you specify the weights, sites of operation and lowering speed (info@ergoswiss.com)

2. Lifting distance
   What lifting distance do you require? [150 to 700 mm] / [6” to 27”]

3. Number of cylinders
   How many cylinders does your application require? [1 – 10]

4. Cylinder type
   What type of cylinder do you need? (Please study the data sheets on the cylinders, linear units and systems).

5. Pump type
   - Pump type A (PA) can drive 1 or 2 cylinders and
   - pump type B (PB) can drive between 3 and 10 cylinders.

6. Speed
   The selection table shows the lifting speed with a crank or electric drive unit.

7. Drive type
   The pump is operated manually using a hand crank or automatically with an electric drive unit. Mains voltage 230 or 110 VAC.
## System Selection Table

<table>
<thead>
<tr>
<th>120 kg 250 lbs</th>
<th>Cylinder type</th>
<th>Pump type for 1 cylinder</th>
<th>Pump type for 2 cylinders</th>
<th>Pump type for 3 cylinders</th>
<th>Pump type for 4 cylinders</th>
<th>Pump type for 5 cylinders</th>
<th>Pump type for 6 cylinders</th>
<th>Pump type for 8 cylinders</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 mm (6&quot;) lift</td>
<td>1415</td>
<td>PA 1815</td>
<td>PA 2615</td>
<td>PB 3615</td>
<td>PB 4615</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>200 mm (8&quot;) lift</td>
<td>1420</td>
<td>PA 1820</td>
<td>PA 2620</td>
<td>PB 3620</td>
<td>PB 4620</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>300 mm (12&quot;) lift</td>
<td>1430</td>
<td>PA 1830</td>
<td>PA 2630</td>
<td>PB 3630</td>
<td>PB 4630</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>400 mm (15.5&quot;) lift</td>
<td>1440</td>
<td>PA 1840</td>
<td>PA 2640</td>
<td>PB 3640</td>
<td>PB 4640</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>500 mm (19.5&quot;) lift</td>
<td>1450</td>
<td>PA 1850</td>
<td>PA 2650</td>
<td>PB 3650</td>
<td>PB 4650</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>600 mm (23.5&quot;) lift</td>
<td>1460</td>
<td>PA 1860</td>
<td>PA 2660</td>
<td>PB 3660</td>
<td>PB 4660</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>700 mm (27.5&quot;) lift</td>
<td>1470</td>
<td>PA 1870</td>
<td>PA 2670</td>
<td>PB 3670</td>
<td>PB 4670</td>
<td>–</td>
<td>–</td>
<td>–</td>
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<tr>
<td>Lift per crank turn</td>
<td>–</td>
<td>5 mm/turn</td>
<td>10 mm/turn</td>
<td>10 mm/turn</td>
<td>10 mm/turn</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Lift per second with motor</td>
<td>–</td>
<td>15 mm/s</td>
<td>30 mm/s</td>
<td>30 mm/s</td>
<td>30 mm/s</td>
<td>–</td>
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<table>
<thead>
<tr>
<th>350 kg 750 lbs</th>
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<th>Pump type for 1 cylinder</th>
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<th>Pump type for 3 cylinders</th>
<th>Pump type for 4 cylinders</th>
<th>Pump type for 5 cylinders</th>
<th>Pump type for 6 cylinders</th>
<th>Pump type for 8 cylinders</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 mm (6&quot;) lift</td>
<td>1415</td>
<td>PA 2815</td>
<td>PB 3815</td>
<td>PB 4815</td>
<td>PB 5815</td>
<td>PB 6815</td>
<td>PB 8815</td>
<td>–</td>
</tr>
<tr>
<td>200 mm (8&quot;) lift</td>
<td>1420</td>
<td>PA 2820</td>
<td>PB 3820</td>
<td>PB 4820</td>
<td>PB 5820</td>
<td>PB 6820</td>
<td>PB 8820</td>
<td>–</td>
</tr>
<tr>
<td>300 mm (12&quot;) lift</td>
<td>1430</td>
<td>PA 2830</td>
<td>PB 3830</td>
<td>PB 4830</td>
<td>PB 5830</td>
<td>PB 6830</td>
<td>PB 8830</td>
<td>–</td>
</tr>
<tr>
<td>400 mm (15.5&quot;) lift</td>
<td>1440</td>
<td>PA 2840</td>
<td>PB 3840</td>
<td>PB 4840</td>
<td>PB 5840</td>
<td>PB 6840</td>
<td>PB 8840</td>
<td>–</td>
</tr>
<tr>
<td>500 mm (19.5&quot;) lift</td>
<td>1450</td>
<td>PA 2850</td>
<td>PB 3850</td>
<td>PB 4850</td>
<td>PB 5850</td>
<td>PB 6850</td>
<td>PB 8850</td>
<td>–</td>
</tr>
<tr>
<td>600 mm (23.5&quot;) lift</td>
<td>1460</td>
<td>PA 2860</td>
<td>PB 3860</td>
<td>PB 4860</td>
<td>PB 5860</td>
<td>PB 6860</td>
<td>PB 8860</td>
<td>–</td>
</tr>
<tr>
<td>700 mm (27.5&quot;) lift</td>
<td>1470</td>
<td>PA 2870</td>
<td>PB 3870</td>
<td>PB 4870</td>
<td>PB 5870</td>
<td>PB 6870</td>
<td>PB 8870</td>
<td>–</td>
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<tr>
<td>Lift per crank turn</td>
<td>–</td>
<td>5 mm/turn</td>
<td>5 mm/turn</td>
<td>5 mm/turn</td>
<td>5 mm/turn</td>
<td>5 mm/turn</td>
<td>5 mm/turn</td>
<td>5 mm/turn</td>
</tr>
<tr>
<td>Lift per second with motor</td>
<td>–</td>
<td>15 mm/s</td>
<td>15 mm/s</td>
<td>15 mm/s</td>
<td>15 mm/s</td>
<td>15 mm/s</td>
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<table>
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<th>600 kg 1300 lbs</th>
<th>Cylinder type</th>
<th>Pump type for 1 cylinder</th>
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<th>Pump type for 3 cylinders</th>
<th>Pump type for 4 cylinders</th>
<th>Pump type for 5 cylinders</th>
<th>Pump type for 6 cylinders</th>
<th>Pump type for 8 cylinders</th>
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</thead>
<tbody>
<tr>
<td>110 mm (4&quot;) lift</td>
<td>1815</td>
<td>PA 2820</td>
<td>PB 3820</td>
<td>PB 4820</td>
<td>PB 5820</td>
<td>PB 6820</td>
<td>PB 8820</td>
<td>–</td>
</tr>
<tr>
<td>180 mm (7&quot;) lift</td>
<td>1820</td>
<td>PA 2830</td>
<td>PB 3830</td>
<td>PB 4830</td>
<td>PB 5830</td>
<td>PB 6830</td>
<td>PB 8830</td>
<td>–</td>
</tr>
<tr>
<td>240 mm (9&quot;) lift</td>
<td>1830</td>
<td>PA 2840</td>
<td>PB 3840</td>
<td>PB 4840</td>
<td>PB 5840</td>
<td>PB 6840</td>
<td>PB 8840</td>
<td>–</td>
</tr>
<tr>
<td>300 mm (12&quot;) lift</td>
<td>1830</td>
<td>PA 2850</td>
<td>PB 3850</td>
<td>PB 4850</td>
<td>PB 5850</td>
<td>PB 6850</td>
<td>PB 8850</td>
<td>–</td>
</tr>
<tr>
<td>400 mm (15.5&quot;) lift</td>
<td>1840</td>
<td>PA 2866</td>
<td>PB 3866</td>
<td>PB 4866</td>
<td>PB 5866</td>
<td>PB 6866</td>
<td>PB 8866</td>
<td>–</td>
</tr>
<tr>
<td>Lift per crank turn</td>
<td>–</td>
<td>3 mm / turn</td>
<td>3 mm / turn</td>
<td>3 mm / turn</td>
<td>3 mm / turn</td>
<td>3 mm / turn</td>
<td>3 mm / turn</td>
<td>3 mm / turn</td>
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<tr>
<td>Lift per second with motor</td>
<td>–</td>
<td>9 mm / s</td>
<td>9 mm / s</td>
<td>9 mm / s</td>
<td>9 mm / s</td>
<td>9 mm / s</td>
<td>9 mm / s</td>
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<table>
<thead>
<tr>
<th>800 kg 1750 lbs</th>
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<th>Pump type for 3 cylinders</th>
<th>Pump type for 4 cylinders</th>
<th>Pump type for 5 cylinders</th>
<th>Pump type for 6 cylinders</th>
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</thead>
<tbody>
<tr>
<td>110 mm (4&quot;) lift</td>
<td>1815</td>
<td>–</td>
<td>–</td>
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<td>–</td>
<td>–</td>
<td>–</td>
<td>PB 4418</td>
</tr>
<tr>
<td>180 mm (7&quot;) lift</td>
<td>1820</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>PB 5418</td>
</tr>
<tr>
<td>240 mm (9&quot;) lift</td>
<td>1830</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>PB 6418</td>
</tr>
<tr>
<td>Lift per crank turn</td>
<td>–</td>
<td>1.8 mm/turn</td>
<td>1.8 mm/turn</td>
<td>1.8 mm/turn</td>
<td>1.8 mm/turn</td>
<td>1.8 mm/turn</td>
<td>1.8 mm/turn</td>
<td>1.8 mm/turn</td>
</tr>
<tr>
<td>Lift per second with motor</td>
<td>–</td>
<td>5 mm/s</td>
<td>5 mm/s</td>
<td>5 mm/s</td>
<td>5 mm/s</td>
<td>5 mm/s</td>
<td>5 mm/s</td>
<td>5 mm/s</td>
</tr>
</tbody>
</table>

* The maximum load is 100 kg (220 lbs) by using 1 cylinder
** The maximum load is 500 kg (1,100 lbs) by using 2 cylinders
1 Cylinder CB, CD, CE, CG, CH, CI, Linear unit LA, LB, LD, LH or System TA, TT, TQ, TU

Please note the following maximum lifting distances of the various cylinder types: System TA: 500 mm (19") | System LH/TH: 500mm (19")
System TI/TK: 300 mm (12") | System TQ: 400 mm (15") | System TT: 400mm (15") | System TU: 500 mm (19")
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